



CopySafe PDF Protector and DRM Validation

Version 2.0 Overview Revised March 2011

- 1.0 Introduction
- 2.0 Digital Rights Management
- 3.0 Universal Document Converter
- 4.0 CopySafe PDF Protector
 - 4.1 PDF Protector & DRM
 - 4.2 PDF DRM Validation
- 5.0 CopySafe PDF Reader

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www.artistscope.com

1.0 Introduction

Protect PDF solutions have been around for years but because it's distributed for use in generic PDF readers like Adobe Reader, the security for passwords and expiration can easily be thwarted and the media inside can be extracted, providing a most insecure option for mission critical data. In contrast CopySafe PDF utilizes it's own proprietary reader enabling stronger encryption and unique security protocols that can never be thwarted. The CopySafe PDF Reader is the only application that can open and display a CopySafe document, and unlike Adobe Reader the source code is not available to the public for hackers to study and reverse engineer, thus ensuring that your protected PDF cannot be exploited.

- Convert almost any file type to protected PDF for the most secure copy protection
- Protected PDF data and media is securely encrypted and cannot be extracted
- Protect PDF from copy by preventing Printscreen and screen capture
- Stop ALL screen capture software
- PDF password protection that cannot be extracted
- Option to prevent printing of PDF documents
- Set an expiry date for PDF documents that cannot be cheated (validated by time server)
- Allow/disallow viewing of the PDF document via remote connections
- Prevent extraction of PDF to obtain original images and resources

PDF Reader

The free PDF Reader also uses CopySafe technology to provide protection from all methods of copy including Printscreen and screen capture software, and to prevent forwarding them onto others, the option of applying DRM can control who can open the document, who can print the document and even put a limit in how many times such access is given. Eleven (11) popular languages that can be selected independent of a computer's default language, enabling a preferred language when working in foreign offices. Free trial software for CopySafe PDF Protector can be downloaded from the ArtistScope web site.

PDF Protector

The CopySafe PDF Protector will import and encrypt PDF documents to protect them from ALL methods of save and copy. CopySafe PDF Protector will convert PDF documents in batches by individual selection or by folder to produce the most secure PDF documents imaginable, safe from all methods of copy and save. Protector can be installed on a server and interfaced with web pages by using ArtistScope DLLs to provide online conversions of documents uploaded by members and staff.

PDF Security

CopySafe PDF provides the most secure copy protection, utilizes an unbreakable PDF reader and when used with DRM management, you have the most secure solution for eBooks, PDF and any other type of document, enabling you can send a document to your clients and maintain complete control over the document while its out in the wild - at any time you can stop the document from being viewed, and control whether it can be printed. You can even control who can open the document.

2.0 Digital Rights Management (DRM)

CopySafe PDF documents are safe from all copy and save methods including the extraction of their content and media by all methods up to and including screen capture. In this respect they are the most secure PDF documents possible, far more secure than all other PDF Protectors claiming to be copy protective. But the document can be copied in entirety... the PDF document can be copied to disk and redistributed.

Preventing redistribution

While the content of a CopySafe PDF document cannot be copied or extracted, the documents can be redistributed to unauthorized persons... persons unknown to you that do not have your permission to view, such as in the case of persons outside your organization or subscribers who may not have paid for the document.

The only way to prevent unauthorized redistribution involves assigning each user a unique identity and monitoring their access to the document. This is not something that can be done simply and it cannot be done by one piece of software, regardless of some may claim.

Managing document access rights

To manage and control who has access to your document is possible. But what you will be doing is not so much preventing the redistribution, but rather preventing the unauthorized access by those persons who may have attained a copy. That's right, and it's the only way to do it... by preventing them from opening the document. Then it doesn't matter how many copies are redistributed because only those authorized by you will be able to open and read their contents.

Total control

Digital Rights Management is a term that has been in use for almost a decade and covers a lot of things but mostly refers to access rights of software and media to control licensing and piracy. But it has mostly applied to fixed goods and restrictions placed on the media at the time of distribution. Consequently there was no control over the media because it wasn't possible, that is until ArtistScope created their version of DRM by which authors can have total control over who accesses the media and under what terms and for what period of time. In fact with ArtistScope DRM those access rights can be altered or cancelled at any time with immediate effect.

Document Rights Management (DRM)

Employing DRM will prevent redistribution of your documents to unauthorized users. CopySafe PDF Protector has been optimized to use DRM but requires the use of a DRM Portal to manage user access privileges. For further information please see the resources available from the www.artistscope.com

3.0 Universal Document Converter (UDC)

ArtistScope recommends the **Universal Document Converter (UDC)** to convert other file types to PDF format suitable for encryption. UDC produces documents that are more true to Postscript Document Format than most other PDF generators including Acrobat 9 that use non-standard PDF manipulations.

UDC Overview

Universal Document Converter is the most complete solution for the conversion of documents of any type into Adobe PDF or graphical files. The underlying basis of Universal Document Converter is the technology of virtual printing. As a result, exporting Microsoft Word documents, Microsoft Excel tables, Microsoft PowerPoint presentations and Autodesk AutoCAD drawings into a chosen format is not any more complicated than printing on a desktop printer.

Universal Document Converter can assist you in preparing documents to be published on websites, protect them from unsanctioned copying and changes when sent by email, save tons of time while preparing PowerPoint presentations, and also simplify the process of sending materials to the printshop or publisher. In addition, you will be able to cut expenses on the development and implementation of a corporate document flow system.

Virtual Printer Technology

Universal Document Converter is created with the help of virtual printer technology.

Powerful Graphic Engine

- Crops "white space" from your document's borders while you print
- Exports documents to raster PDF, TIFF, JPEG, BMP, PNG, GIF, PCX or DCX up to 6000 DPI

Enterprise Deployment

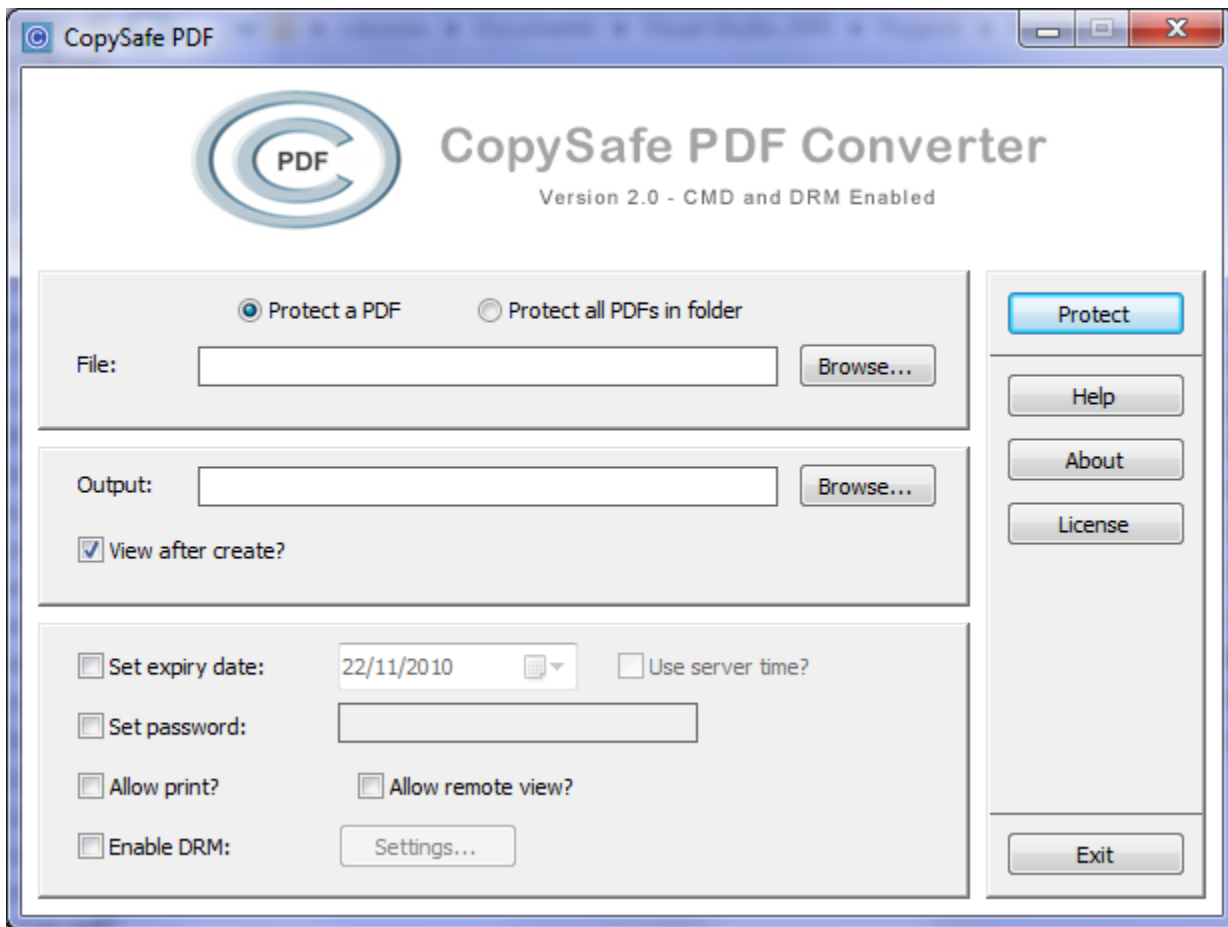
- Increases the efficiency and simplicity of complex tasks by sharing UDC from the Network
- Fully supports advanced technologies such as the Windows Remote Desktop and Citrix MetaFrame
- Control UDC from within your own applications using the COM interface

Popular Conversion Options

- Convert Microsoft Word to PDF
- Convert Microsoft Excel (*.xls) to PDF
- Convert Microsoft PowerPoint to PDF
- Convert Microsoft Visio to PDF
- Convert Microsoft Outlook to PDF
- Convert Microsoft Access to PDF
- Convert Adobe PDF to JPEG
- Convert Autodesk AutoCAD (*.dwg) to PDF
- Convert DjVu file to PDF
- Convert QuarkXPress to PDF

4.0 CopySafe PDF Protector

CopySafe PDF Protector can encrypt PDF documents for the most secure copy protection with the option of applying DRM control over user access rights to prevent unauthorized distribution.



Protect single PDF documents or protect in batches by folder

When a folder is selected all PDF documents will be batch processed using the nominated security options for all documents, renaming each new file as the original.

Set document expiry date

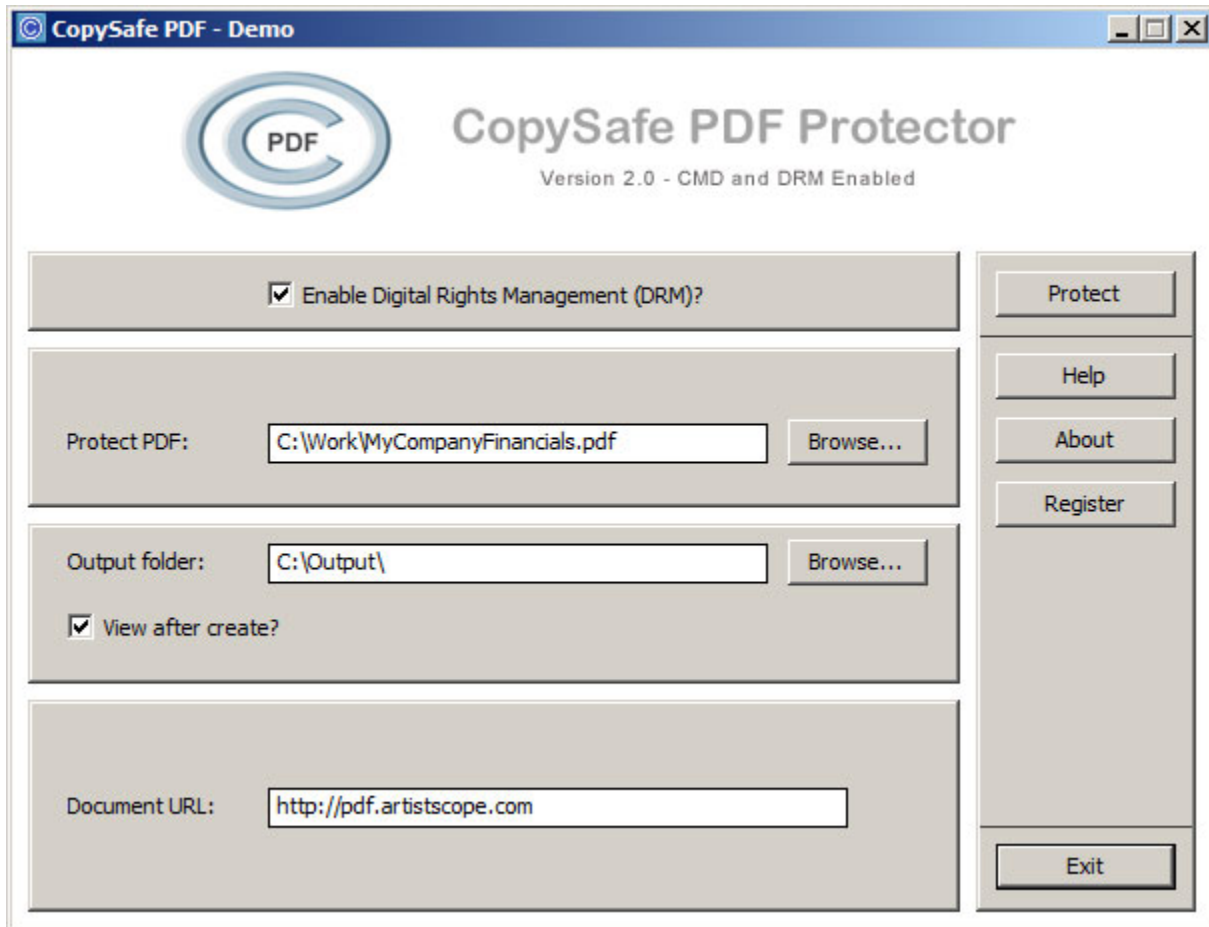
An expiry date can be set with the option of using local time or an online time-server. Using the time-server option will prevent user's from foiling expiration by turning back their computer's clock.

Other access limitations

- Set password protection
- Allow or prevent printing
- Allow or prevent remote view
- DRM options (see DRM section for elaboration)

4.1 CopySafe PDF Protector & DRM

CopySafe PDF protector can encrypt and protect PDF for secure copy protection or it can also be used in conjunction with ArtistScope add-ons for total control DRM management. Using DRM can extend your protection to ensure that the documents cannot be redistributed to unauthorized users.



By using DRM on your documents, even if 100 copies are made of the document, they are useless to anyone who doesn't have your permission to view, thus effectively stopping redistribution permanently.

No further settings are required other than what you see in the image above because your security settings will be controlled by the DRM Portal. In fact you will have total control over any changes with immediate effect, even on documents that have already been downloaded by your readers:

- Set user access by group (such as course enrolled or college level)
- Set expiration date (optional) verified by time server or local time
- Set password to open the document (optional)
- Set the number of times that the document can be accessed by a single user (optional)
- Allow/disallow printing and/or set the number of times the document can be printed
- Allow/disallow document access via another computer on a remote or virtual connection
- Change user access and document settings at any time with immediate effect

4.2 PDF DRM Validation

To manage DRM validation of your documents, you can install a DRM Validation Service on your own server using the components listed below, or you use a ready-to-use service hosted by ArtistScope.

DRM Management Portal

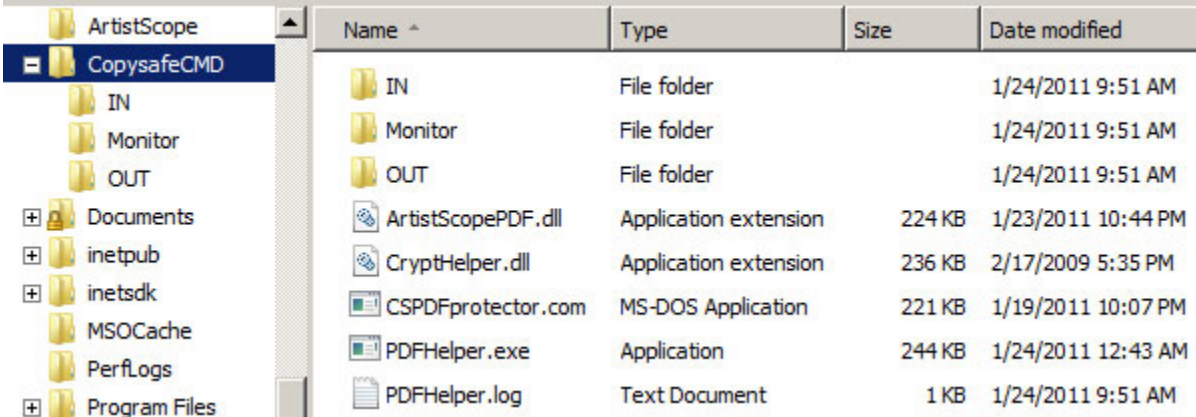
With this add-on you can provide a DRM validation service for your protected eBooks and PDF documents from your own web site. Add users and documents with total control over their access rights that extends to documents that have already been downloaded and on a user's computer.

- Protect which users or groups can view a document
- Protect expiration on a document validated by time server or local time
- Protect the number of views of a documents per a user
- Protect the number of prints of a document per user
- Protect access to documents by IP number or network
- Manage document permissions and user subscriptions with immediate effect over changes

Requires support for ASP and either an Access or MS-SQL database, and is fully compatible with SharePoint and .Net web sites running on all Windows servers including 64-bit.

DRM Server DLL

This package includes a Windows DLL and Windows processing service to interface the server-side PDF Protector with the DRM Management Portal.



Name	Type	Size	Date modified
IN	File folder		1/24/2011 9:51 AM
Monitor	File folder		1/24/2011 9:51 AM
OUT	File folder		1/24/2011 9:51 AM
ArtistScopePDF.dll	Application extension	224 KB	1/23/2011 10:44 PM
CryptHelper.dll	Application extension	236 KB	2/17/2009 5:35 PM
CSPDFprotector.com	MS-DOS Application	221 KB	1/19/2011 10:07 PM
PDFHelper.exe	Application	244 KB	1/24/2011 12:43 AM
PDFHelper.log	Text Document	1 KB	1/24/2011 9:51 AM

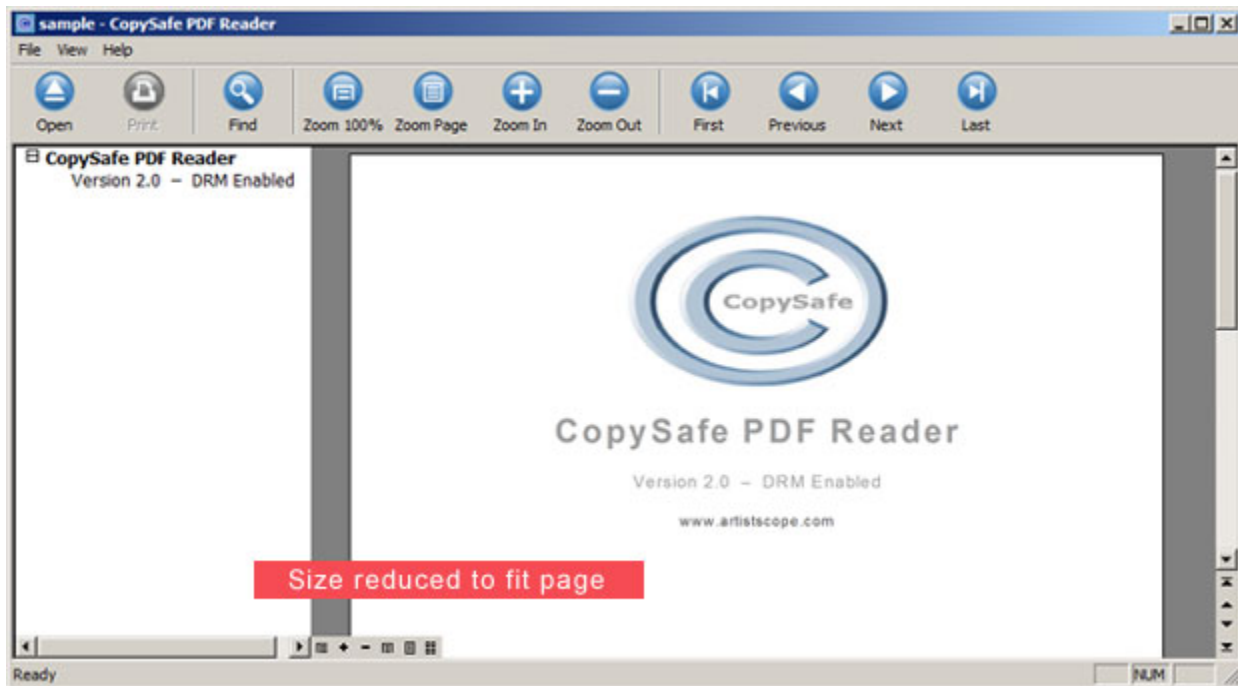
Installed with the DRM Portal above you can upload PDF and have them converted server side for both copy protection and DRM protection.

Evaluation

Try creating a free demo account at <http://www.artistscope.com/> to test drive this DRM Portal.

5.0 CopySafe PDF Reader

The CopySafe PDF Reader is free software.



The free CopySafe PDF Reader is available in eleven (11) popular languages that can be selected independent of a computer's default language, enabling a preferred language when working in foreign offices.

The CopySafe PDF Reader is available as a free download to the public.

- Supports DRM and vanilla copy protection
- Supports DRM and computer validation with DRM networks
- Supports user view and print limitations by DRM
- Supports allow/disallow printing options
- Supports print and remote view limitations
- Supports all languages and type faces
- Supports expiration and password protection
- Expiration options for local time or online time server
- The reader library files cannot be extracted as with most PDF solutions

CopySafe PDF Reader is by far the most secure PDF Reader available today and is ideal for distribution by download, email or on CD.